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Transport in the Jovian Stratosphere: Insight From a 2D Model of Ethane

Y.-T. Lee (Caltech), M. Allen, A. Friedson, G. Orton, R. West (JPL/Caltech)

Mass transport in the Jovian stratosphere reflects the effects of both advection and diffusion. Ethane is an inert tracer in the (lower) Jovian stratosphere and can be used to diagnose the circulation. We created 2D simulations of the ethane distribution with the Caltech/JPL multi-dimensional photochemistry/transport model. A comparison of observations of the latitudinal variation of ethane infrared emission with model values will constrain the magnitude of advection and diffusion in the stratosphere.

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